VAZHNOV, A.I.; POPOV, V.V.

Static stability of an electric power transmission system with an asynchronous support compensator. Trudy LPI no.241:135-142 '64.
(MIRA 18:4)

VAZHNOV, A.I., inzh.; GORDON, I.A., inzh.; SALITA, P.Z., inzh.

Models of low-powered synchronous machines. Vest. elektroprom.
32 no.6:48-50 Je '61. (MIRA 16:7)

(Electric machinery, Synchronous-Models)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210011-3"

. VAZHNOV, A,I, (Leningrad)

Method for calculating the movement of the rotor of a synchronous motor with large oscillations. Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.5:31-38 S-0 '62.

(MIRA 15:11)

(Electric motors, Synchronous)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210011-3"

和最后,我们就是我的我们,我们就是我们的,我们就是我们的,我们就是这个人,我们就会一个人,我们就会一个人,我们就是我们的,我们就是我们的,我们就是我们的人,我们

Dynamic stability of an asynchronous motor with a shock load.

Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.4140-47

Jl-Ag '62. (MIRA 15:8)

(Electric motors, Induction) (Electric driving)

VAZHNOV, A.I. (Leningrad)

Dynamic stability of a synchronous motor with impact load. Izv.

AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.3:84-90 My-Je '62.

(MIRA 15:6)

(Electric motors, Synchronous)

VAZHNOV, A.I. (Leningrad)

Asynchronous compensator as a means for increasing the stability of an electric power distribution system. Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.6:115-120 N-D '61. (MIRA 14:12) (Electric power distribution)

TARASOV, V.S., dotsent; VAZHNOV, A.I., dotsent; RAKITSKIY, Yu.V., inzh.; POPOV, V.V., inzh.; SEMENOVA, L.N., inzh.

Method for conducting studies on dynamic stability with electronic computers. Elektrichestvo no.4:7-12 Ap '60. (MIRA 14:4)

1. Leningradskiy politekhnicheskiy institut imeni Kalinina.
(Electric calculating machines)
(Electric machinery—Electromechanical analogies)

5/196/61/000/011/027/042 E194/E155

AUTHORS : Vazhnov, A.I., Gordon, I.A., and Salita, P.Z.

Model synchronous machines of low output TITLE

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika,

no.11, 1961, 24, abstract 111 181. (Vestn.

elektroprom-sti, no.5, 1961, 48-50)

TEXT: The article describes model hydro- and turboalternators types MT-5/1500 (MG-5/1500) and MT-5/1500 (MT-5/1500), model synchronous capacitors type MX-3/1500 (MK-3/1500) and machine field systems with an output of 3-5 kVA, 220 V, 1500 r.p.m. The classification of the model generators as turbo- or hydroalternators is nominal inasmuch as the stators of both machines are identical and the rotors are designed in such a way that either a salient pole or cylindrical rotor can be fitted in one and the same machine. The inertia constant of all the machines is about 5 seconds. The shafts of the model machines can carry special flywheels with removable discs by which the inertia constant can be increased up to 20 seconds. Two types of replaceable rotor

Card 1/2

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Model synchronous machines of ...

5/196/61/000/011/027/042 E194/E155

have been developed for model turbo— and hydro-alternators. Replaceable rotors of the model synchronous capacitor differ only in the construction of the damper windings. Experimentally-determined characteristics and losses of model machines are given. No-load characteristics in relative units of the model machines coincide closely with the normal no-load characteristics of the full-scale machines.

[Abstractor's note: Complete translation.]

Card 2/2

32064

S/024/61/000/006/016/019 E192/E382

9,1400

AUTHOR:

Vazhnov, A.I. (Leningrad)

TITLE:

Asynchronous compensator as a means of increasing the dynamic stability of electrical transmission systems

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Energetika i avtomatika,

no. 6, 1961, 115 - 120

TEXT: The paper investigates the dynamic stability of a long-distance transmission system, using an asynchronous machine with rotor excitation as an auxiliary compensator. First, the transmission system shown in Fig. 1 is considered. In this the compensator and the synchronous generator have rotors fitted with longitudinally and transversely symmetrical excitation windings. If the resistances of the stators of the machines are neglected, the angular power characteristics of the generator 1 and compensator 2 are in the form:

V

$$P_{1} = p_{1n} \sin \theta_{1n}' + p_{12} \sin \theta_{12}'$$
 (1)

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Asynchronous compensator

$$P_{2} = P_{2n} \sin \theta_{2n} - P_{12} \sin \theta_{12}$$
 (2)

where P_1 and P_2 are the generator and compensator powers, respectively; the power amplitudes are:

$$p_{1n} = \frac{E_1^* E_n}{x_{1n}}$$
, $p_{2n} = \frac{E_2^* E_n}{x_{2n}}$, $p_{12} = \frac{E_1^* E_2^*}{x_{12}}$

X

where E_1 and E_2 are electromagnetic forces at the output of the generator and compensator, respectively, E_n is the voltage of an "infinite-power" system, x_{1n} , x_{2n} and x_{12} are mutual impedances between the voltage sources E_1 . E_2 and E_n , Θ_{1n} , Θ_{2n} and Θ_{12} are relative angles between the Card $2/\beta$

3206li \$/024/61/000/006/016/019

Asynchronous compensator

vectors of these voltages. All the voltages, impedances and powers are measured in relative units. If it is assumed that the inertia constant $H_{i2} = \infty$, Eq. (1) can be simplified and written as:

$$p_1 = p_{1m} \sin (\theta_{1n}^{i} - \Theta^{i})$$
 (5).

E192/E382

In the case of a dynamic transient produced by a three-phase short-circuit occurring at the input of the transmission line, followed by removal of the short-circuiting and simultaneous increase in the impedance of the line, the conditions are described analytically by:

$$\cos(\theta_{1nk}^{\prime} - \theta^{\prime}) = \frac{P_{1np}}{P_{1m}} \left(\pi - \theta_{1n0}^{\prime} + \theta^{\prime} - \arcsin \frac{P_{1np}}{P_{1m}} \right) \sqrt{1 - \left(\frac{P_{1np}}{P_{1m}}\right)^2}$$
(4)

Card 3/87

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S/024/61/000/006/016/019 E192/E382

Asynchronous compensator

where θ_{1n0}^* , θ_{1nk}^* are the values of the angle θ_{1n}^* , corresponding to the initial steady-state conditions and to the instant of the removal of the short-circuit. The difference between the two angles represents the change in the angle θ_{1n}^* during the short-circuiting interval τ_e , which is expressed by

$$\mathcal{L}_{k} = \sqrt{\frac{2H_{j1}(\Theta_{lnk}^{*} - \Theta_{ln0}^{*})}{P_{lnp}}}$$
 (5)

X

where H_{il} is the inertia constant of the generator.

It is now possible to investigate the transmission system where the compensators are in the form of asynchronous machines with rotor excitation. If at the instant of the removal of the short-circuit the angle θ_{12} ' is about 70 - 90° the

angular characteristics of the machines can be written in a Card 4/07

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S/024/61/000/006/016/019 E192/E382

Asynchronous compensator

simplified form since $\sin\theta_{12}{}^{i}\approx 1$. In this case, the dynamic threshold transients can be expressed by:

$$\cos \theta_{1nk}' = \frac{P_{1np}}{P_{1n}} \left(\vec{v} - \theta'_{1n0} - \arcsin \frac{P_{1np} - P_{12}}{P_{1n}} \right)$$

$$-\sqrt{1-\left(\frac{p_{1np}-p_{12}}{p_{1n}}\right)^2-\frac{p_{12}}{p_{1n}}\left(\pi-\theta_{1nk}'-\text{arc sin }\frac{p_{1np}-p_{12}}{p_{1n}}\right)}$$

(8),

X

which can be combined with Eq. (5) in order to determine the relationship $P_{lnp} = f(c_k)$. The above equations are used to determine the dynamic stability of the transmission system of the Card 5/67

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32064 S/024/61/000/006/016/019 E192/E382

Asynchronous compensator

Stalingrad-Moscow type during a three-phase short-circuit. It is assumed for the purpose of calculation that the compensator is connected between the first and second line sections and that its power amounts to half the nominal transmitted power, which is equal to 1 260 MW. The nominal transmission voltage is 440 kW The parameters of the synchronous generator at the output of the transmission line are:

$$x_{d} = 0.5$$
, $x_{d}^{c} = 0.19$, $T_{d_{0}} = 6$ sec and $H_{j} = 15$ sec.

The relative values of the parameters as calculated are indicated in the table. The results of the calculations are illustrated in three graphs, from which it is concluded that the introduction of an asynchronous compensator leads to a substantial increase in the dynamic stability of the transmission system. The problem of the control methods for the excitation of the asynchronous compensator is also investigated and it is shown that the control can be effected on the basis of the first and second derivatives

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X

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Asynchronous compensator

of the normal excitation voltage of the machine, If the amplification coefficients $\mathbf{k_y}'$ and $\mathbf{k_y}''$ for the first and second derivatives, respectively, are negative, control of the excitation leads to an increase in the static stability of the system, whereas with positive $\mathbf{k_y}'$ and $\mathbf{k_y}''$, the conditions of static stability deteriorate. There are 6 figures, 1 table and 1 Soviet-bloc reference.

SUBMITTED: July 14, 1961

X

Card 7/87

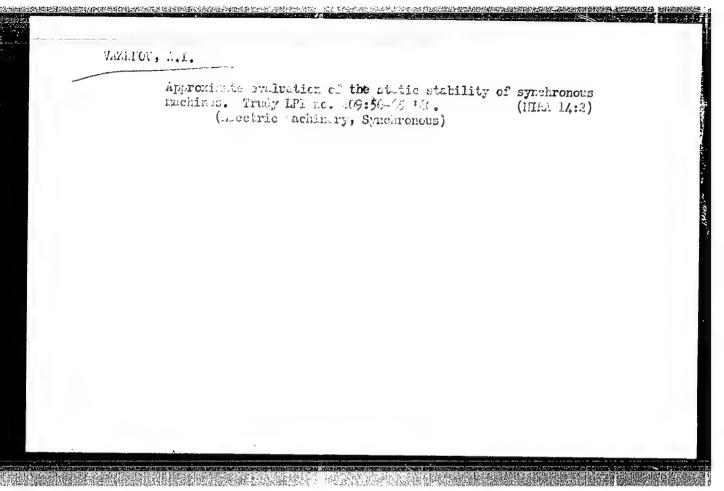
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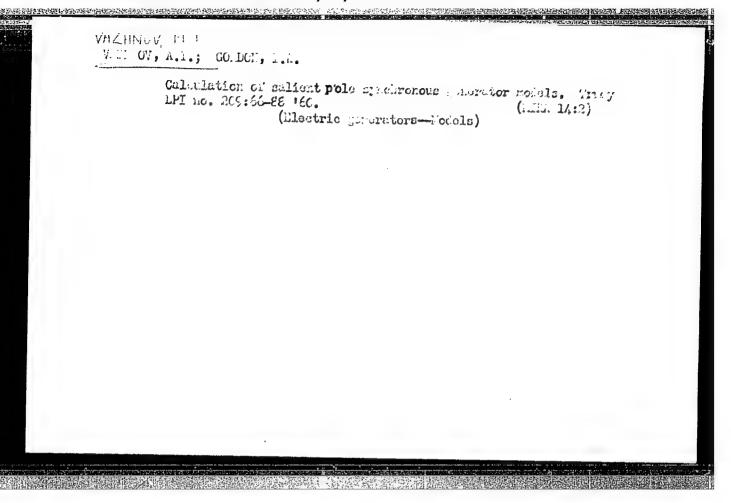
VAZHHOV, A.I.; POPOV, V.V.

Dynamic stability of an asynchronous generator with excitation in the rotor circuit. Izv. vys. ucheb. zav.; elektroneki. 3 no.11:54-64. 160. (MRA 14:2)

(Electric generators)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210011-3"





VAZHNOV, Aleksandr Ivanovich; ROZOVSKIY, Yuriy Aleksandrovich; SALITA, Pavel Zinoviyevich; KRAYCHIK, Yu.S., red.; ZHITNIKOVA, O.S., tekhn. red.

[Electrodynamic model of power systems] Elektrodinamicheskaia model energosistem. Moskva, Gos. energ. izd-vo, 1961. 112 p. (MIRA 14:8)

1. Leningradskiy politekhnicheskiy institut (for Vazhnov) (Electric power distribution-Models) (Electric machinery)

VAZHNOV, Aleksandr Ivanovich; SHCHEDRIN, N.N., retsenzent; LEVINSHTEYN,

M.L., red.; SOBOLEVA, Ye.M., tekhn.red.

[Fundamentals of the theory of transient processes in synchronous machines] Osnovy teorii perekhodnykh protsessov sinkhronnoi mashiny. Moskva, Gos.energ.izd-vo, 1960. 312 p.

(Electric machinery, Synchronous) (Transients (Electricity))

VAZHNOV. A.N.

Methods of forecasting rapid rise of stream waters due to heavy rains in the Armenian S.S.R. Izv.AN Arm. SSR. Ser. FMET 1 no.7: 603-616 '48. (MLRA 9:8)

1. Vodno-energeticheskiy institut Akademii nauk Armyanskoy SSR. (Armenia.—Stream measurements)

VAZHNOV, A.N.

Data on M.A. Velikanov's method of forecasting the rapid rise of small stream waters due to heavy rains. Izv.AN Arm. SSR. Ser. FIGT 1 no.7:617-632 '48. (MLRA 9:8)

1. Vodno-energeticheskiy institut Akademii nauk Armyanskoy SSR. (Stream measurements)

30767. VAZHMOV, A. M. and KIPISHCHYAM, J. O. K voposy ratsionalizatsii seti i nablyudenty gidpometeorolologicheskikh stantsiy na territorii Armyanskoy SSR. Izvestiya (akad. nauk Arm. SSR), fiz.-

matem., estesv. i tekhn. nauki, 1949, Mo. 2, s. 87-101. - Rezyume na arm.

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yaz. -- Bibliogr: 7 nazv.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210011-3" YAZHNOV, Aleksandr Nikolavawich: YEGIAZAROV, I.V., redaktor; KHACHATRYAN, A.S., redaktor izdatel stva; KAPIANYAN, M.A., tekhnicheskiy redaktor

[Multiannual mean flow of rivers of the Armenian S.S.R. and the annual mean stream] Srednii mnogoletnii stok rek Armianskoi SSR i ego vnutri-godovoe raspredelenie. Erevan, Izd-vo Akademii nauk Armianskoi SSR, 1956. 154 p. (MLRA 10:1)

(Armenia--Rivers)

AUTHOR:

Vazhnov, A. N.

TITLE:

Forecasts of Mountain River Runoff in the USA (Prognozy stoka gornykh

PERIODICAL:

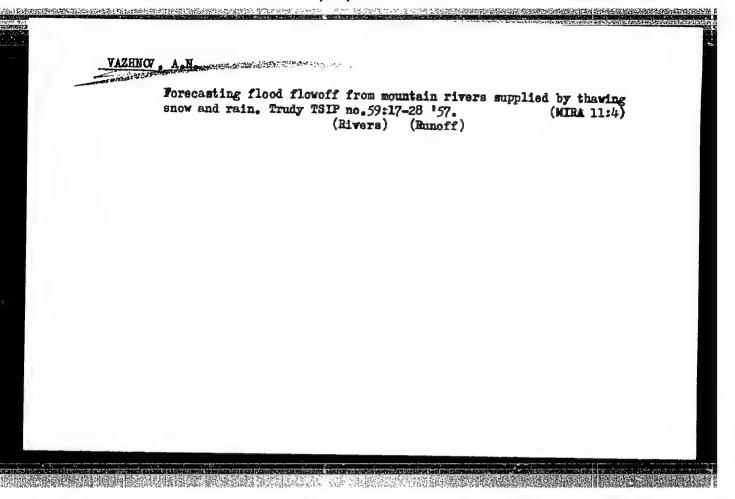
Meteorologiya i Gidrologiya, 1957, No. 1, pp. 51-55 (U.S.S.R.)

ABSTRACT:

The methods employed in studying and forecasting the runoff from mountain rivers in the USA, particularly in the mountain and western states, are described for the information of Soviet hydrometeorologists. Reference is made to the 1931-1936 tests in which panoramic photos were used in evaluating the snow layers in mountains in the southern Platte River Basin and the Colorado and Columbia River regions. The author notices that the USA has taken steps to investigate the water-retentivity of snow and evaporation from the snow surface.

2 Graphs. There are 14 USA references (no Slavic references).

Contractor



VAZHNOV, A.N.

New observation methods of the smow cover in mountains. Trudy Tbil. NIGMI no.3:88-95 58. (MIRA 11:10)

1. TSentral'nyy institut prognozov. (Saow)

AUTHOR: Vazhnov, A. N. 50-58-5-3/20

TITLE: Forecasting Spring Flood Flow of Mountain Rivers on the Basis of General Topographical Relationships (Prognoz stoka polovod'ya gornykh rek na osnove terri-

torial no obshchikh zavisimostey)

PERIODICAL: Meteorologiya i Gidrologiya, 1958, Nr 5, pp 20-25

(USSR)

ABSTHACT: In the practice of long-term forecasts of flow during

floods graphical or analytical correlative dependences of a type $Y_p = f(x_s, x_d)$ are used, where Y_p denotes the flow during the floods, x_n - the winter precipitations

or the maximum store of snow until the beginning of floods and x_d - the precipitations since the moment of the de-

termination of x until the end of the period of floods.
When the additional spring precipitations are small than

When the additional spring precipitations are small they may be disregarded. Then the dependence for the forecast

Forecasting Spring Flood Flow of Mountain Rivers on the Basis of General Topographical Relationships 50-58-5-3/20

can be represented as a diagram with 2 variables. But concrete data must exist for every river or for every concrete line of direction. From a practical point of view, however; one must be able to forecast the flow for such rivers for which no data at all exist. Here only dependences for entire regions can make a solution of the problem possible. In the present paper the method mentioned in the title is described for East Transcaucasia. A certain correspondence was found to exist between the averages of several years losses of the flow of melted snow and the amount of snow supplies. In a region with a more or less uniform course of precipitations per year and with an equal penetrability of rocks the connection between the average of the flow of melted snow during the period of floods and the average of winter precipitations is fairly close. An analogous connection exists between the average flow of liquid precipitations and the precipitations themselves. Figure 1 shows it for East Transcaucasia.

Card 2/5

Forecasting Spring Flood of Mountain Rivers on the Basis of General Topographical Relationships 50-58-5-3/20

A climatic and hydrological characteristic of this region is given. The period of floods lasts from the beginning of April until June-July. The floods consist of 30-50% of melted snow, the rest of rain and of permanent subterranean feed. Curve 2 (Figure 1) makes it possible to determine the value of the flow of melted snow from the amount of the maximum store of snow or the sum of winter precipitations. The store of snow can be computed according to earlier data (Reference 1). From the above-mentioned curve 2 the average flow during the period of floods without subterranean feed is determined. It became evident that the losses of the flow of melted snow increase with increasing supplies of snow, although with a certain delay (Reference 1). Therefore the flow coefficient also increases with an increasing supply of snow. Figure 2 shows this connection for the Aragvi river. The influence of fall precipitations upon the flow of floods is little. All this makes possible the following assumption:

Card 3/5

Forecasting Spring Flood of Mountain Rivers on the Basis of General Topographical Relationships

50-58-5-3/20

 $\frac{Y_s}{\overline{Y}_s} = f\left(\frac{X_s}{\overline{X}_s}\right)$ (1), i. e. the ratio of the flow of melted

snow in the respective year to its norm represents a function of the relation of snow supply alone to its norm. The last dependence for East Transcaucasia approximately represents a straight line (2). For the computation of the second component - the flow of precipitations during the period of floods - the flow coefficient of precipitations is considered as constant from year to year. For various river basins it rises within the respective region according to rules, with increasing store of snow (winter precipitations) (Figure 3). From the diagram of figure 3 the average coefficient for liquid precipitations during the period of floods can be determined for every river basin. The last, the third term of the sum - the permanent subterranean feed - is determined from the minimum water consumption of early spring in the respective year which is assumed as constant for the entire period of floods. The total flow during the period

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Forecasting Spring Flood of Mountain Rivers on the Basis of General Topographical Relationships

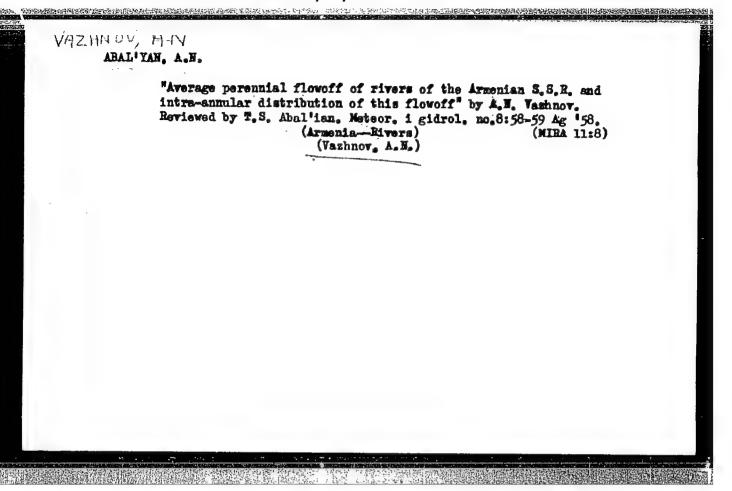
50-58-5-3/20

of floods in the respective year is determined by the addition of all 3 terms of the sum.

There are 4 figures and 4 references, 4 of which are Soviet.

1. Inland waterways 2. Floods 3. River currents--Analysis 4. Precipitation 5. Mathematics

Card 5/5



8(6), 14(6)

SOV/112-59-5-8657

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 37 (USSR)

AUTHOR: Vazhnov, A. N.

TITLE: Forecasting the Spring-Summer Runoff of Transcaucasian Rivers

PERIODICAL: T. Tsentr. in-ta prognozov, 1958, Nr 67, pp 118-140

ABSTRACT: The found relationship between the quantity of winter and spring precipitation and the runoff of certain Caucasian and Transcaucasian rivers permits compiling long-term runoff forecasts. Short-term forecasts (under one month) require careful observation of snow-cover melting. It is suggested that a few experimental mountain basins be singled out and that all hydrometeorological observations be made in these basins.

Ye.A.I.

Card 1/1

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VAZHNUV, MIX

p.x

PHASE I BOOK EXPLOITATION

SOV/4158

Moscow. Tsentral'nyy institut prognozov

Voprosy prognozov stoka rek (Forecasting River Flow) Moscow, Gidrometeoizdat (Otd-niye)., 1960. 125 p. Errata slip inserted. 1,000 copies printed. (Series: Its: Trudy, vyp. 96)

Additional Sponsoring Agency: USSR. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

Ed. (Title page): A.N. Vazhnov; Ed. (Inside book): M.I. Sorokina; Tech.Ed.:

FURPOSE: This publication is intended for hydrologists and hydroelectric engineers.

COVERAGE: This issue of the Transactions of the Central Institute of Forecasting contains 6 articles on problems in forecasting river discharge.

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Forecasting River Flow

SOV/4158

3

Individual papers discuss the underground and snowmelt feed of rivers, the use of serial photographs in the investigation of snow cover, and the calculation of the unstabilized movement of water in the tailrace of a hydroelectric power plant. References accompany each article.

TABLE OF CONTENTS:

Afenas yev,	A.I.	Use	of	Aerial	Photographs	of	Snow	Cover	Dissappearance	1n
Calculating	the	Snow :	Mel	ting	•					441

Afanas'yev, A.I. Theoretical and Empirical Curves of Snow Cover Distribution Over a Certain Area

Vazhnov, A.N. Underground Feeding of Mountain Streams During the Flood
Period and Summer Low-Water Period
35

Vazhnov, A. W. Methods of Forecasting Summer-Fall Discharge of Transcaucasian Rivers

Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210011-3"

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Forecasting River Flow

Kharshan, Sh.A., and A.I. Rimashevskiy. Observations of Snow Cover Over the Oyskiy Range(Western Sayan)

Zhidikov, A.P. Calculation of the Unstabilized Movement of Water in the Tailrace of the Rybinskaya Hydroelectric Power Plant Under Daily Regulation Conditions, According to the Method of G.P. Kalinin and P.I. Milyukov

85

AVAIIABLE: Library of Congress

JA/dwm/gmp
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WAZENOV, A.N.

"History of studying the laws of runoff in mountaincus regions"
by L.A.Vladimirov. Reviewed by A.N.Vazhnov. Meteor. i gidrol.
no.4162-64 Ap '62.

(Runoff)

(Vladimirov, L.A.)

VAZHNOV, A.N., kand.tekhn.nauk

Hydrograph calculation of a flood of a mountain river according to precipitation. Meteor. 1 gidrol. no.4:28-32 Ap '65.

1. TSentral'nyy institut prognozov.

(MIRA 18:4)

KORNEYEV, V., insh.; VAZHNOV, B., insh.

Why the efficiency promoter did not go to the Office for the Promotion of Industrial Efficiency and Inventions? Izobr. i rats. no.10:31-32 0 58. (MIRA 11:11)

KISLITSYN, S.I.; SHIRKOV, I.P.; VENCERCVSKIY, V.A.; FEDOROV, D.F.;

VAZENOV, B.N.; TRUNTSEV, D.S.

Rostrum of periodical's readers, inventors, efficiency promoters, and innovators at readers' conference in Moscow. Izobr. v SSSR
2 no.9:37 S '57.

(MIRA 10:10)

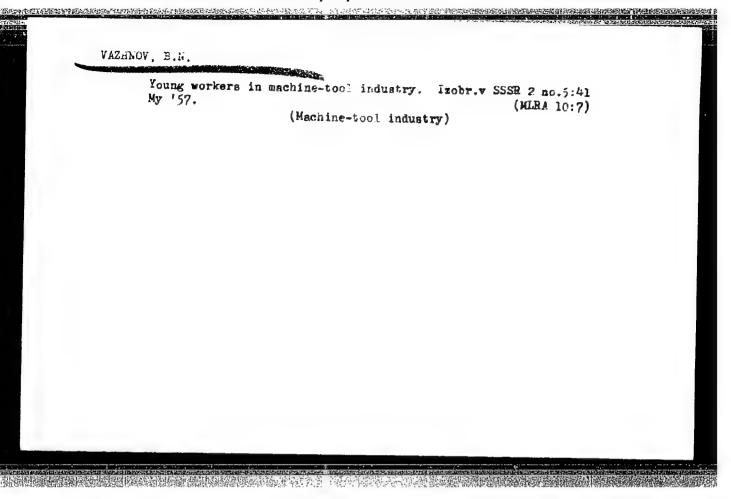
1. Deputat Verkhovnogo Soveta SSSR (for Shirkov). 2.Zavod "Serp i molot" (for Fedorov, Truntsev); Byuro sodeyatviya ratsionalizatsii i izobretatel'stvu Nauchno-isoledovatel'skogo instituta Drevmash
(for Vazhnov).

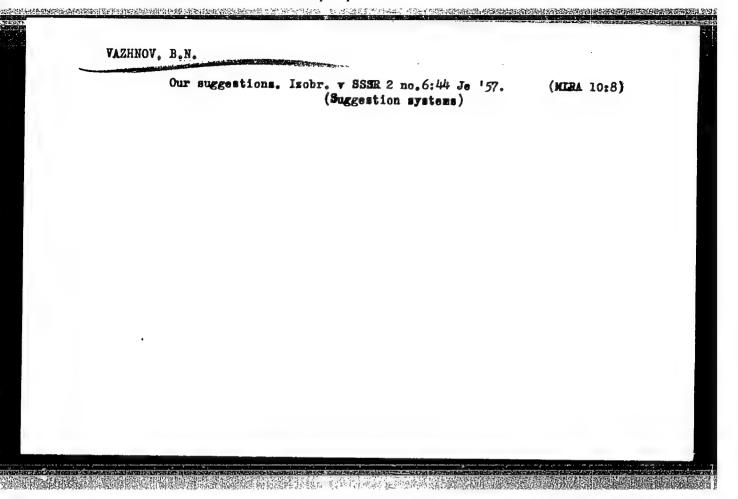
(Moscow—Inventions)
(Moscow—Suggestion systems)

VAZHNOV, B.N.

Inventor W.F. Gusev. Izobr. v SSSE 3 no.2:18-20 F '58. (MIRA 11:3)

(Inventors) (Woodworking Machinery)





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VAZHNOV, L.D.

Introducing the refining of AL-9 alloy with argon. Biul. tekh.-ekon. infrom. Gos. nauch.-issl. inst. nauch. i tekh. inform. 18 no.2:20-21 F '65. (MIRA 18:5)

MOSTOVeY, A., inzh.; VAZHOV, A., mekhanik

Remote control of the 3D12 engine of the LOTS-14 cutter. Rech.
transp. 19 no. 2:31-32 F '60. (MIRA 14:5)
(Remote control) (Marine diesel engines)

USSR / Cultivated Plants. Fruits, Berries, Nutbearing, M-6 Teas.

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6404

Author : Vazhov, V. Inst : Not given

Title : Spring Frost Protection of Perennial Plantings

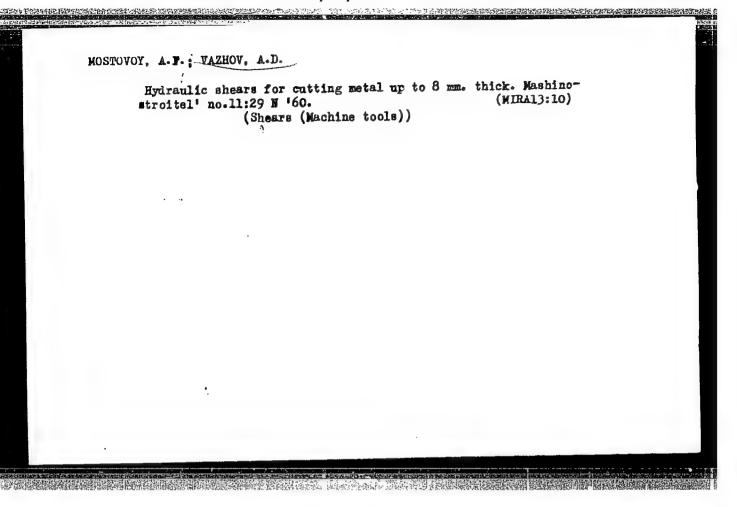
Orig Pub : Vinogradarstvo i sadovodstvo Kryma, 1958,

No 3, 27-29

Abstract : No abstract given

Card 1/1

127





ACC NR: AP6015637 SOURCE CODE: UR/0413/66/000/009/0044/0045

INVENTOR: Vazhov, G. I.

OfG: none

TITLE: Contactless dc motor. Class 21, No. 181182 ...

SOUNCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 44-45

TOPIC TAGS: electric motor, dc motor

ABSTRACT: This Author Certificate presents a contactless dc motor of the synchronous type with a multiphase armature winding supplied through a converter from a dc circuit. The motor contains a transformer detector of the rotor position angle with magnetization from permanent magnets and is connected at the output of the converter. To increase the reliability, the armature winding phases are connected directly to the output windings of the transformer detector through semiconductor

rectifiers (see Fig. 1).

Fig. 1. 1 - rotation angle dotector; 2 - permanent magnets; 3 - output winding of detector

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UDC: 621.313.292

Card 1/2

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L 45234-65 EMT(m)/EMP(w)/EPF(c)/EPF(n)-2/504(d)/SPR/f/50P(c)/WP(c)

ACCESSION NR: AP5007648

\$/0193/65/000/002/0020/0021

AUTHOR: Vazhnov, L. D.

TITLE: Experience gained in adopting argon refining for alloy AL-9

SOURCE: Byullsten tekhniko-ekonomicheskoy informatsii, no. 2, 1965, 20-21

TOPIC TAGS: alloy, argon, metal degaseing, alloy property/ AL 9 alloy

ABSTRACT: To eliminate the disadvantages of using zinc chloride in refining alloy AL-9, a method of refining and degassing with argon was developed. The process is schematically shown in Fig. 1 on the Enclosure. After the alloy is transferred to the pouring furnace, a neated quartz take (12-15 mm inside diameter) is lowered to within 50-100 mm of the critible rottom, and argon is passed through the metal (at 700-7200) for 5-5 minutes. After sampling, the metal is poured, or the process is repeated. The average properties of the argon refined alloy were $G_{\rm h} = 25-29~{\rm kg/mm^2}$, to 10% as compared with 21-2% and 2-4% respectively for zinc chloride refining. Adoption of argon refining at the present level of AL-9 output saves 2300 rubles annually. Orig. art. has: 1 figure.

ASSOCIATION: Volgo-Vyatskiy sovnarkhoz (Volgo-Vyatskiy Council of National Economy)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210011-3"

VAZHOV, V. 1.

"Drought in the Territory of the Central Chernozem Regions." Cand Geog Sci, Voronezh State U, Min Higher Education USSR, Voronezh, 1955. (KL, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

VAZHOV, Vasiliy Ivanovich, kand.geograf.nauk; BURTSEV, Dmitriy Antonovich;
ZHILMAKOVA, O., red.; ISUPOVA, N., tekhn.red.

[Unseasonable frosts and their control] Zamorozki i bor'ba a nimi.
Simferopol', Krymizdat, 1960. 79 p. (MIRA 13:12)

(Grimea---Frost protection)

KALININ, G.P.; MILYUKOV, P.I.; VAZHNOVA, A.N., otv.red.; ZHDANOVA, L.P., red.; VIADIHIROV, O.G., tekhn.red.

[Approximate calculation of unsettled motion of water masses]
Priblizhennyi raschet neustanovivshegosia dvizhenia vodnykh
mass. Leningrad, Gidrometeor. izd-vo, 1958.70 p. (Moscow,
mass. Leningrad, Gidrometeor. Trudy, no.66)

(MIRA 12:1)
(Hydrology)

YAZHECVA, G. S.

VAZHNOVA, G. S.: "The tehavior of strip insulation under conditions of increased temperature and high relative humidity." Leningrad, 1955. Min Higher Education USSR. Leningrad Polytechnic Inst imeni M. I. Kalinin. (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No. 47, 19 November 1955. Moscow.

69582

sov/112-59-22-45362

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, Nr 22, p 10 (USSR)

15.8000 15.9300

Mikhaylov, M.M., Vazhnova, G.S., AUTHORS:

The Influence of Temperature on Moisture Characteristics (P, D and h) TITLE:

of Film Materials

Nauchno-tekhn. inform. buyl. Leningr. politekhn. in-t, 1958, Nr 7, PERIODICAL:

pp 22 - 30

Evaluation of the behavior of a material in a moist surrounding from ABSTRACT: an increase in the weight of samples during 24 - 48 hours is obsolete.

A correct choice of moisture protecting materials, as well as a choice of the electric insulation itself is possible only when the three main moisture characteristics of the material are known: moisture permeability constant of the material P (g/cm · mm Hg · hour), which

characterizes the total amount of moisture passing through the given material; solubility coefficient h (g/cm3 · mm Hg) which determines the amount of moisture absorbed by the material in the saturation state, and the diffusion coefficient D (cm2/hour.) These coefficients are connected

by the relation P = hD. Therefore for a complete characteristic of the

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The Influence of Temperature on Moisture Characteristics (P, D and h) of Film Materials

behavior of a material in a moist medium, it is sufficient to know any two of them. The characteristics P, D and h of various films were determined by the method of the pressure change. Also was studied the influence of temperature on characteristics of various materials. The dependence of P on the absolute temperature according to the law: $P = P_0 \cdot exp(-E/RT)$, where E is activation energy; R is a gas constant. When E is known, the change of P with the change of temperature can be determined. Values of E for the tested films (aceto-butyrate and triacetate of cellulose, polystyrene, escapone, varnishes 13 and 47, polymethylmethacrylate, light varnish fabrib) are given. All these materials have not high moisture protective properties. The minimum P have polystyrene, varnishes 13 and 47. The maximum P has triacetate of cellulose, which is probably explained by its higher polarity as compared with the other tested materials. The change of temperature has practically no influence on the value of P; only for triacetate of cellulose and varnish fabric an insignificant decrease in P with an increase in temperature was observed. At the same time the change of temperature in each individual case led to the change in the speed of the moisture permeability through the same material. The higher the temperature, the quicker the state of equilibrium is reached. The value of h for the tested materials is reduced by a half order or even by an order of magnitude at the change of temperature from 20°C to 60°C. The decrease in h with the temperature has Card 2/3

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The Influence of Temperature on Moisture Characteristics (P, D and h) of Film Materials

a great practical importance for the calculation of the service time or of the time of effectiveness of moisture protection of an object. This time is determined by the formula

 $\tau = -\frac{hVd}{PS} \ln (1 - p_k lp_o),$

where V is volume of insulation protected against moisture; d is thickness of the moisture protecting layer; S is area of insulation exposed to moisture; p_k is the critical pressure of water vapors. Thus, \mathcal{T} , other conditions being equal, is proportional to h/p; the greater this relation the longer the lifetime of the object. The temperature will strongly influence the changes of \mathcal{T} , as with an increase in the temperature P practically does not change, but h decreases sharply. The knowledge of values of P and h and their temperature relations is necessary for the correct solution of the problem of the choice of a proper moisture protecting material and of the field of its application. 3 references.

A.O.M.

Card 3/3

VAZHOV, I.; MCSKALEV, P., inzh.

We are raising the labor productivity in every operation. Transp delo 6 no.4:38-42 **54.

1. Nachalnik gara Inskaia (for Vazhov).

KHERSONOVA, L.A.; VAZHOVA, G.V.

Production of pectolytic ferments from the submerged culture of Aspergillus niger *C* on the atomizing dryer. Ferm 1 spirt. prom. 30 no.724-5 *64 (MIRA 18:2)

1. Vsecoyuznyy nauchno-isaledovatel skiy institut fermentnoy i spirtovoy promyshlennosti.

KOMAROV, A.F.; VAZHOVA, G.V.

Technical and economic parameters of the dehydration and drying of yeast feeds and biomycin. Ferm. i spirt. prom. 30 no.3:32-35 '64.

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1. Vsesoyuznyy nauchnowissledovateliskiy institut fermentnoy i spirtovoy promyshlennosti.

NESMEYANOVA, S.I.; CHIKRYZOVA, L.G.; BOYKO, V.M.; KORNIYŁNKO, T.I.; VISHNEVSKAYA, L.F.; VAZHOVA, T.V.

Studying the duration of immunity to smallpox vaccine in Uzbekistan. Med. zhur. Uzb. no.8:65-68 Ag '61. (MIRA 15:1)

1. Iz Tashkentskogo instituta vaktsin i syvorotok (direktor - A.B.Inogamov).

(UZBEKISTAN_SMALLPOX_PREVENTION) (IMMUNITY)

3,2420 (1049,1482)

26819 \$/560/61/000/008/008/010 E032/E514

AUTHORS:

Gorchakov, Ye. V. and Vazilevskaya, G. A.

TITLE:

Measurement of the intensity of charged particles

after the chromospheric flare of July 7, 1958

PERIODICAL:

Akademiya nauk SSSR, Iskusstvennyye sputniki zemli,

1961, No.8, pp.84-86

TEXT: The flare of July 7, 1958 was of importance 3⁺ and occurred between 00 h 58 m and 04 h 14 m U.T. (Ref.1: Solnechnyye dannyye 1958, No.7, izd-ve AN SSSR, 1958). The present authors have used the data obtained with the third Soviet artificial Earth satellite to determine the changes in the intensity of the corpuscular radiation in the region of the outer radiation belt. The detector employed was described by S. N. Vernov, P. V. Vakulov, Ye. V. Gorchakov, Yu. I. Logachev and A. Ye. Chudakov (Ref.2: Iskusstvennyye sputniki Zemli, No.2, izd-vo AN SSSR, 1958, p.61) and was in the form of a cylindrical sodium iodide crystal (diameter 39.5 mm, length 40 mm). The crystal was surrounded by an aluminium screen of 1 g/cm². It was found that a strong increase in the intensity began roughly 16 hours after the Card 1/4

s/560/61/000/008/008/010 Measurement of the intensity of ... E032/E514 termination of the flare but only a few hours prior to the onset

of the magnetic storm. Fig.1 shows the absolute increase in the ionization in the crystal (AJ, eV/sec) deduced from the measurements for July 7-0 1058 of the absolute increase in the ionization. Analysis of the operation of the counter has shown that the increase in the operation of the counter has shown that the increase in the ionization at these points cannot exceed 1013 eV. In Fig.1 the ments for July 7-9, 1958. vertical axis gives the logarithm of the difference between the observed and the average value of the ionization and the time is left-hand corner indicates the duration of the chromospheric flare and the arrows on the axis show the beginning and end of the plotted along the horizontal axis. magnetic storm. A. N. Charakhch'yan, V. F. Tulinov, T. M. Charakhch'yan (Ref. 3: ZhETF, 39, 249, 1960) have shown the increase in the intensity of cosmic radiation which then the increase in the intensity of cosmic radiation which they detected in the stratosphere on July 8, 1958 at 08 h was due to The present authors have used the data reported in Ref. 3 to calculate the corresponding increase in the ionization which one would have expected to obtain

Card 2/4

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210011-3" Measurement of the intensity of ... 26619 \$/560/61/000/008/008/010 E032/E514

with the sodium iodide crystal. It turns out that the resulting number is lower by a factor of 1000 than the ionization actually recorded with the counter mounted on the satellite. The present authors show that the difference between the present results and those of A. N. Charakhch'yan et al. (Ref.3) may possibly be due to multiply charged particles, although they also show that the data now reported is not inconsistent with 100 MeV protons being responsible for the additional ionization. Acknowledgments are expressed to S. N. Vernov, A. Ye. Chudakov and A. N. Charakhch'yan for interest and discussions. There are

SUBMITTED: August 2, 1960

Card 3/4

Vazilevskiy, V. M.	MIC. Misc. .1132A
Btoriunye dragotsennye metally (Secondary precious metals Moskva, Metallurgizdat (1946) I v. Illus.	s (silver, gold, platimum)

BRAGIN, N., inzh.; VAZILO, A., inzh.; DZEKTSER, Ye., inzh.; KUDRYAVTSEV, V., inzh.

Use of ground water as source of supply for fire extinction in mikled peat winning fields. Pozh.delo 9 no.3:14-15 Mr 163. (MIRA 16:4)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy torfyanoy promyshlennosti.

(Peat industry—Fires and fire prevention)

VAZIIO, A.P.; insh.; SHERZHUKOV, B.S., insh.

Water supply for fire prevention on milled peat fields. Torf.prom. 36 no.1:36 '59. (MIRA 12:3)

1. Giprotorf. (Vater supply, Industrial)

SHABLINSKIY, Vladimir Varfolomeyevich; VAZILO, A.P., inzh., red.; SHERZHUKOV; B.S., inzh., red.; LARIONOV, G.Ye., tekhn.red.

[Hydraulic calculation of canels and small rivers in connection with the draining of peat deposits, bogs, and swampy land] Gidravlicheskie raschety kenalov i malykh rek pri osushenii torfianykh mestorozhdenii, bolot i zabolochennykh zemel.

Moskva, Gos.energ.izd-vo, 1959. lll p. (MIRA 12:4) (Drainage) (Hydraulic engineering)

VAZIN, A.L., inzhener.

Resources and prospective development of the Northern Railroad.

Zhel.dor.transp. 37 no.10:24-27 0 55. (MIRA 9:1)

l.Nachal'nik tekhnicheskogo otdela upravleniya Severnoy dorogi, Yaroslavl'. (Railroads)

VAZIN, A.N., aspirant

Effect of different stimuli of intestinal secretion on the .. enzymic activity of the contents of the small human intestine. Sbor. nauch. trud. Ivan. gos. med. inst. no.25:39-48 '62. (MIRA 17:5)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. S.S. Foltyrev) i kafedry obshchey khirurgii (zav. - prof. N.A. Vazin) Ivanovskogo gosudarstvennogo meditsinskogo instituta (rektor - dotsent Ya.M. Romanov), Ivanovskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR A.A. Cheyda) i Ivanovskogo oblastnogo onkologicheskogo dispansera (glavnyy vrach - zasluzhennyy vrach RSFSR A.N. Styskin).

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210011-3"

VAZIN, A.N., aspirant; BARTENEVA, M.N.

Comparative data on the enzymic activity of the intestinal juice and excrement in experimental stomach ulcers in dogs. Sbor. nauch. trud. Ivan. gos. med. inst. no.25:49-53 '62. (MIRA 17:5)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. S.S. Poltyrev) i TSentral'noy nauchno-issledovatel'skoy laboratorii Ivanovskogo gosudarstvennogo meditsinskogo instituta (rektor-dotsent Ya.M.Romanov).

VAZIN, A.N., aspirant

Pathological afferent influences from the stomach on some functions of the digestive apparatus and liver. Sbor. nauch. trud. Ivan. gos. med. inst. no.27:126-133'62. (MIMA 16:8)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. S.S. Poltyrev) Ivanovskogo gosudarstvennogo meditsihskogo instituta (rektor - dotsent Ya.M.Romanov).

(DISFASPI LIVER) (STOMACH UICERS)

VAZIN. A.N.

Comparative characteristics of the motor-evacuant function of the gastrointestinal system following resection of the stomach by Bilroth II and insertion methods under experiment conditions. Pat. fiziol. i eksp. terap. 8 no.4:57-59 Jl-Ag '64. (MTRA 18:2)

Kafedra patologicheskoy fiziologii (prof. S.S. Poltyrev)
 Ivanovskogo meditsinskogo instituta.

VAZIN, A.N.

Comparative characteristics of some vegetative charges following experimental gastric resection by the Billinoth iI and insertion methods.

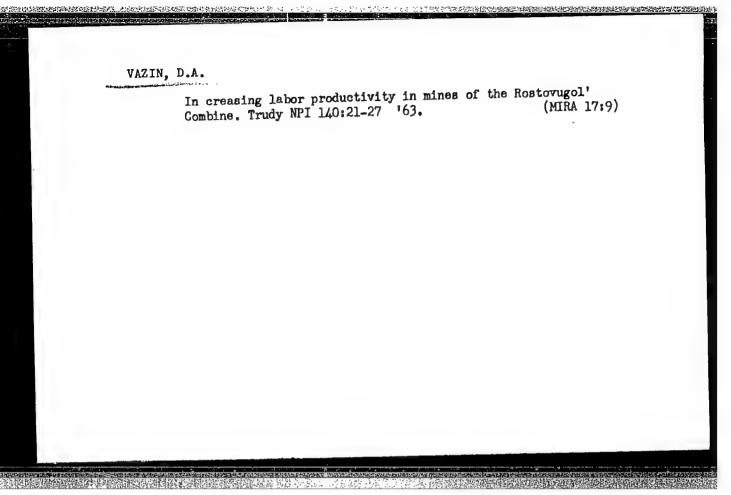
Eksper. khir. 1 anest. 9 no.1:43-48 Jack ** (MIRA 17:32)

l. Kafedra patologicheskoy fiziologii (zav. - prof. S.S.Foltyr-v) i kafedra obshchey khirurgii (zav. - prof. N.A.Vazin) Ivanovskogo meditsinskogo instituta.

VAZIN, A.N.

Comparative values of compensation following gastric resection using the Billroth II and insertion methods. Biul.eksp.biol.i med. 57 no.5:19-23 My 164.

1. Kafedra patofiziologii (zav. - prof. S.S.Poltyrev) Ivanovskogo meditsinskogo instituta. Submitted March 7, 1963.



Classif:	cation of the rigidity of roof rocks. Trudy (Donets Basin-Stoping (Mining)) (Donets Basin-Rocks-Classification)	(MIRA 15:5)
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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210011-3"

PROKOPENKO, Ivan Nikitich, VAZIN, Dmitriy Aleksandrovich, CHUMACHENKO,
Petr Petrovich,; VESKOV, M.I., otv. red.; SHUSHKOVSKAYA, Ye.L.,
red. izd-va,; VINOGRADOVA, G.V., red. izd-va,; NADEINSKAYA,
A.A., tekhn. red.

[Working coal beds in Central Asia] Razrabotka ugol'nykh plastov Srednei Azii. Moskva, Ugletekhizdat, 1958. 159 p. (MIRA 11:11) (Soviet Central Asia--Coal mines and mining)

VAZINA, A. A., LEMAZHIKHIN, B. K., and ANTREYEVA, N. S. (USSR)

"The Employment of a Narrow-Angle X-Ray Dispersion method for Examination of Protein Solutions."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

VAZINA, A.A.; LEMAZHIKEIN, B.K.; FRANK, G.M.

Discrete dispersion of rays at small angles on a concentrated actin solution. Biofizika 9 no.2:237 64. (MIRA 17:12)

1. Institut biologicheskoy fiziki AN SESR, Moskva.

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VAZTNA, A.A.; LEMAZHIKHIH, B.K., FRANK, G.M.

Discovery of an actin polymer differing from the F-form. Dokl. AN SSSR 159 no.4:921-922: D '64 (MIRA 18:1)

1. Institut biologicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Frank).

VAZINA, A.A.; LEMAZHIKHIN, B.K.; FRANK, G.M.

Liquid crystalline structure in nonoriented gels and F-actin solutions. Biofizika 10 nc.3:420-423 '65. (MIRA 18:11)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted July 6, 1964.

VAZINA, A.A.; FRANK, G.M.; ZHELEZNAYA, L.A.

Intermediate actin polymer. Biokhimiia 30 no.4:721-726 Jl-Ag '65. (MIRA 18:3)

1. Institut blologicheskoy fiziki AN SSSR, Moskva.

VAZINA, A.A. BOLOTINA, I.A.; VOL'KENSHTEYN, M.V.; LYASOTSKAYA, I.; FRANK, G.M.

Configuration of a polypeptide chain in G- and F-actin. Riofizika 10 no.4:567-570 '65. (MIRA 18:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva, i Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad.

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POGLAZOV, B.F.; VAZINA, A.A.; BELAVTSEVA, Ye.M.; KITAYGORODSKIY, A.I.

Roentgenographic and electron microscopic study of tail coatings of the phage T-2. Dokl. AN SSSR 163 no.2:488-490 Jl *65. (MIRA 18:7)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR; Institut biologicheskoy fiziki AN SSSR i Institut elementoorganicheskikh soyedineniy AN SSSR. Submitted September 30, 1964.

"APPROVED FOR RELEASE: 08/31/2001 CIA

CIA-RDP86-00513R001859210011-3

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ACCESSION NR: AR4J47780

S/0299/64/000/018/M022/M022

SOURCE: Ref. zh. Biologiya. Svodny*y tom, Abs. 18M166

AUTHOR: Vazina, I. R.

TITLE: Changes in replanted lungs related to bronchial anastomosis

constriction

CITED SOURCE: Sb. Vopr. travmatol., ortopedii. sluzhbys krovi.

Gor'kiy, 1964, 252-254

TOPIC TAGS: dog, lung, replantation, anastomosis, emphysema

TRANSLATION: Constriction of the bronchial anastomosis (diameter was reduced by 2-3 times) was found in 14 of 90 dogs with a replanted left lung. As a rule, constriction was combined with exudative pleuritis and difficult venous outflow. Emphysema of the lung and hypertrophy of smooth muscles in the bronchia and vessels developed in the presence of only one be invited to restriction. Science to the treatment was a provided and the property of the lung and to the treatment of only one be invited to the treatment of the lung and to the treatment of the lung and to the treatment of the lung and the lung and the lung and the lung and lung

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VAZINA, I.R. (Gor!kiy)

Morphological changes in reimplanted lungs during complications connected with disorders of the venous outflow. Arkh. pat. 27 no.9:16-22. '65. (MIRA 18:12)

1. Kafedra patologicheskoy anatomii (zav... prof. M.L. Biryukov) Gor'kpvskogo meditsinskogo instituta imeni S.M. Kirova i laboratoriya konservatsii i transplantatsii organov i tkaney (zav... kand. med. nauk S.I. Yutanov) Gor'kovskogo instituta travmatologii i ortopedii. Submitted December 2, 1963.

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LEGINOS HOLDVALLIJAJI N. S. I ZSVEJ	Yaroslavl'. Tekhnologicheekiy instifut	Uchanye Zapiski, Tam II (Scientific Botes, Vol. 2) Involved v		Mittorial Staff; A.L.Zaltina, Candidate of Historical Sciences) Docut M.M. Marry, Candidate of Technical Sciences; Frofessor M.J. Farberov, Inches of Technical Sciences;	and Bi . Brackman Tr. S. Busheiter . Doctor of Chantest Sciences	many and a constant to the manhabiting Candidate of Charles Selected	PHENGER: This book is primarily intended for industrial commisse and verb- malogists interreted in the kineties of chemical rections and their re- inted physical processes:	COVERAGE: The trenty-two articles of this callection deal mathly with in-	heat profess and greath, schaufes related to these processes and with landstrial chemical equipment. No personalities are sentioned. References	are given after each article.	A Company of Company o	Farbers N.T. and L.A. Manathan Lucharaction of Jackstylene Math	Arethidehyde and the Synthesis of bethyl Fentadiese on This Bests	Minnesons, A.C. and M. L. Perberov. Synthesis of Akyl Panols	Bondaronda, A.Z., M.I. Brginoss and M.I. Parberov, Industrial Synthesis of Vinyl Tolusse	Jektrykov, B.F., S.L. Arrakov, V.Ad., V. (Aplyan and V.D. Quelin. Some Transitional of A. Propyland Dimer. (Included of A. Tropyland Dimer.	Expatiting Lais. Stratification departity as a Branch of Thermal Analysis and the formation to the Constant of	Visitehery, M.M. Amayrical Use of the Organic Rasgest 2-meinomorphibalens- (Lame-1) benneme 2-carbonylle Acid	Sakata, B.F., Bugoya, F.P.; and B.A. Orlov. The Comlate Couplex of Magnesian	Baskshor, Tu.S., and I.A. Tolling, the Beargy of Final Decomposition Products of Riverse contributed Shortnoon	CHRICAL TROUBLOOK, PROCESSES AND SQUENCES	Termilor, P.I. Mitectiveness of Vetting Agent ID for Recovering lead Filings	Tarmiller, P.I. Adsorption of Vetting Agent IN on lasd Oxides Under Statio Contitions	Frolor, A.P., and G.E. Borthorn, Separation of Martures of Methyl-Idonana	man all carried at 12. Cherryshowning. Desicotion and Talennisation of a Waleshing and Talennisation of a Waleshing the Same Talennisation of the Control of	Mehans, M.M., and P.P. Chernyshovskiy. Elelectric Properties of Frintian Mehans.	Paricher, A.D. The Problem of the Materibution of Uniber in Mifferent Paris of Matemobile filter	Emphyson, W.C., and W.S. Tret/vaker. The influence of the Amount and Stability of Crystallites on the Strength of Rubbers With M. (Mahural Rubber) Manna, in the Case of Dalay Warfoun Accelerators	Numbers, V.G., and B.A. Smirnov. Symbotic Alkyl Phenol-midshyde Reside as maker Strengtheners	MINIORE OF CEDENTIE	Manababots, Nu.S. Invelopment of the Chemistry of Estarocyclic Compounds and Alkahotds in Ressia	Bashahor, Tu.S., and T.T. Toronaniore, Tu.V. Larmontoure's Research in Petroless Prolyt's
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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210011-3"

VAZINGER, Alevtina Vasil'yevna; YEGEREVA, N., red.; SHAVEL'SKAYA, T., otv. za vypusk; YURGANOVA, M., tekhn. red.

[Natural conditions and feed resources of Chita Province] Prirodnye usloviia i estestvennye kormovye resursy Chitinskoi oblasti. Chita, Chitinskoe knizhnoe izd-vo, 1959. (MIRA 14:10)

(Chita Province-Physical geography)

VAZINGER, I.V.

Effect of the light factor on the development of initial phases in the organogenesis of the Gossypium hirsutum L. cotton species. Vop. biol. i kraev. med. no.4:88-92 163. (MIRA 17:2)

82777

SOV/184-59-5-5/17

AUTHOR:

Vazinger, V.V., Engineer

TITLE:

The Dependence of the Suction Coefficient of a Piston Compressor on

the Number of Revolutions

PERIODICAL:

Khimicheskoye mashinostroeniye, 1959, Nr. 5, pp. 12-15 (USSR)

ABSTRACT:

The theoretical part of this paper is based on the well-known studies of Professor N.A. Dollezhal' on the theory of self-acting valves of piston compressors. Proceeding from the formula for the suction efficiency of a compressor $Q_S = \lambda_E F_D \operatorname{Sn} \operatorname{m}^2/\min$ (1), where λ_S -suction coefficient, F_D -surface of the piston (m^2), S-stroke of the piston (m), n-rpm, author states that the dependence of the sucked volume on the rpm number is not adequately expressed by the above equation, since the suction coefficient itself also depends on the rpm number. Consequently, the equation (1) can be used only in the case when the relation between λ_S and n is known. The generally accepted expression for the suction coefficient $\lambda_S = \lambda_1 \lambda_{\omega}$, (where λ_4 -indicated suction coefficient and λ_{ω} -coefficient accounting for change of gas density by heating) does not take into account the actual processes taking place in compressor cylinders at a high rpm

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number. The following formula is more correct:

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The Dependence of the Suction Coefficient of a Piston Compressor on the Number of Revolutions

 $\lambda_{s} = \lambda_{V} - \left(\frac{\xi}{K}\sigma^{\frac{1}{K}} + \frac{1+\xi}{K}\sigma^{\frac{1}{K}}\sigma^{\frac{1}{K}}\right) \frac{P_{0}}{F_{n}P_{K}} - \frac{0.019 \text{ m}_{K} \text{ R}_{h} \text{ n}^{2}}{P_{0}}$ where $\lambda_{V} = 1 + \xi + \xi \sigma^{\frac{1}{K}}$, ξ - dead space coefficient, P_{0} - initial

where $\lambda_{V} = 1 + \ell + \ell$ of m, ℓ dead space coefficient, P_0 initial tension of the valve spring, F_V - rated area of passage in the valve seat (m^2) ; of knominal compression ratio; m_k mass of moving parts of the valve $(kg \sec^2/m)$; R_h hydraulic radius of valve seat (m). For the design of the valve the following parameters are important; of (m) discharge coefficient of the valve at a relative opening (m) = 1, (m), (m), (m), and (m) (the relation of the dead volume, formed by the valve, to the nominal surface of the inlet in the valve seat). From equations (9)-(11) and (14)-(18) it follows, that at equal production costs a valve with a higher value of (m) and lower values of the other three parameters is preferable. The intake volume reaches the maximum at a certain definite rpm number, after which a further rpm increase leads to a decrease of the intake volume. In an ideal case, the ultimate rpm number of a compressor is:

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The Dependence of the Suction Coefficient of a Piston Compressor on the Number of Revolutions

$$n_{\text{lim}} = \frac{\lambda_{V}}{0.552 \sqrt{\frac{m_{K} \Omega_{h}}{P_{K} F_{r}} \left(\frac{\mathcal{E}}{\kappa} 6^{-\frac{\Lambda}{K}} + \frac{\Lambda + \mathcal{E}}{\kappa} \mathcal{E}\right)}} \qquad \text{rpm.}$$

The increase of the rpm number has a negative effect on the suction coefficient, but this can be reduced to a minimum by a proper valve design. There are 8 graphs and 1 Soviet reference.



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VAZINGER, YV.

AT MIOR:

Vacinger, 7. 7.

119-1-9/19

TITLE:

Pneumatic Transport Relay (Putevoye pneumaticheskoye

rele).

PERIODICAL:

Priborostroyeniye, 1958, Nr 1, pp. 28-28 (USSR)

ABSTRACT:

The relay described was built for an apparatus with which tin plates can be automatically galvanized. The most important part of this apparatus is the stacker which arranges the plates on one another. At the outlet of the apparatus the galvanized plate is picked up by an electric magnet and is transported on a conveyer belt to a prefixed place. There the electric magnet is disonnected and the plates slip into the depot. For the automation a 20 operations per minute (in dependence on the

position of the plates) were demanded.

The relay operates about as follows: A metal diaphragm can be met by from one side by jet of air and thus be moved. On the other side of the diaphragm there is a bolt partly

isolated which acts on electric contacts, which in this way are connected or disconnected. When, now, the galvanized tin

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plate comes to lie between the air-outlet nozzle the diaphragm

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Pneumatic Transport Relay

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is in its initial position and the contacts at the other side are open, i.e. the magnet is dead. When the plate is off the airstream meets the diaphragm and the magnet becomes current-carrying.

In the laboratory 67,000 cycles of 20 operations each were

run and the relay did not fail once.

A similar apparatus built by another institution needs an airpressure of 0,5 kg/cm² while the one described above can be operated with from 400-600 mm water column pressure.

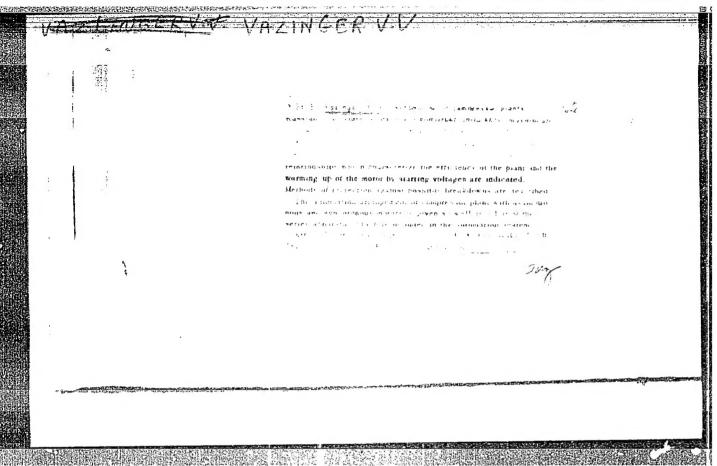
There are 2 figures.

AVAILABLE:

Library of Congress.

1. Relays-Development

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Soleno	old valves. Priborostroenie no.4:7-10 2 (Valves) (Electric relays)	lp '57•	(MLRA 10:5)

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